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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/593,108	05/21/2007	Robert Friskney	64457/00154	9368
	7590 02/03/201 SELS & GRAYDON, I	EXAMINER		
45 O'CONNOI	R ST., 20TH FLOOR	LEE, CHI HO A		
OTTAWA, ON KIP 1A4 CANADA			ART UNIT	PAPER NUMBER
			2472	
			NOTIFICATION DATE	DELIVERY MODE
			02/03/2011	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

karen.forgie@blakes.com

Office Action Summary

Application No.	Applicant(s)	Applicant(s)	
10/593,108	FRISKNEY ET AL.		
Examiner	Art Unit		
Andrew Lee	2472		

	Andrew Lee	2472				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the o	correspondence ad	ldress			
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D Extensions of time may be available under the provisions of 37 GFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply its geneficial above, the maximum statutory period and the provision of 37 GFR 1.1 after SIX (6) MONTHS from the maximum data of the provision of 37 GFR 1.1 after SIX (6) MONTHS from the main and part of the main among plant term adjustment. See 37 GFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	V. nely filed the mailing date of this o D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 23 N	lovember 2010.					
2a) ☐ This action is FINAL. 2b) ☐ This	action is non-final.					
 Since this application is in condition for allowa 	nce except for formal matters, pro	secution as to the	e merits is			
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 48	53 O.G. 213.				
Disposition of Claims						
4) Claim(s) See Continuation Sheet is/are pendir	ng in the application.					
4a) Of the above claim(s) is/are withdra	wn from consideration.					
 Claim(s) <u>52, 53</u> is/are allowed. 						
Claim(s) is/are rejected.						
7) Claim(s) <u>51</u> is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9) ☐ The specification is objected to by the Examine	er.					
10) The drawing(s) filed on is/are: a) acc	epted or b) objected to by the l	Examiner.				
Applicant may not request that any objection to the	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correct	tion is required if the drawing(s) is ob	jected to. See 37 C	FR 1.121(d).			
11) The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form P	TO-152.			
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 	priority under 35 U.S.C. § 119(a)	i-(d) or (f).				
1. Certified copies of the priority document	s have been received.					
 Certified copies of the priority document 		on No				
Copies of the certified copies of the prio	rity documents have been receive	ed in this National	Stage			
application from the International Burea	u (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list	of the certified copies not receive	ed.				
Attachment(s)						
Notice of References Cited (PTO-892) Notice of Draftsperson's Fatent Drawing Review (PTO-942)	4) Interview Summary Paper Ne(s)IV all De					
a) Distance of Draftoporson of all of Draftoporson	5) Notice of Informal F					

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Notice of References Cited (PTO-892)	4) Interview Summary (PTO-413)
Notice of Draftsperson's Patent Drawing Review (PTO 943)	Paper Ne(s)/V all Date
Information Disclosure Statement(s) (PTO/SB/08)	 Notice of Informal Patent Application
Paper No(s)/Mail Date	6) U Other:

Continuation of Disposition of Claims: Claims pending in the application are 1-3,12-23,28,48-53,57-60,65,66,70-72,81-92,97,110-113,122-129,131-133,138,156-158,162-165,171 and 175.

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DETAILED ACTION

Claim Rejections - 35 USC § 103

 The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-3, 12-23, 28, 48-50, 57-60, 65-66, 70-72, 81-92, 97, 110-113, 122-129,
 131-133, 138, 156-158, 162-165, 171, and 175 are rejected under 35 U.S.C. 103(a) as being unpatentable over Marshall et al PG-PUB 2004/021323 in view Tanaka et al PG-PUB 2010/0290343.

Re Claims 1, 50, 70, 110, 111, 158, 162-165, 175, Marshall et al teaches in figure 14 a receiving packet (a first mapping...a first network address) wherein the packet is inherently associated with the addressing scheme of the network; further processing the packet includes identifying the VLAN ID (a first identifier) (Step 1420); mapping the being to a select an output port of the node [See 0063+]; wherein the VLAN ID (a qualifier) enables differential forwarding whereby establishing a connection for forwarding the packet (See figure 1). Marshall et al fails to explicitly teach "the first identifier is associated with the connection...being allocated to the connection such that it is unique at least among connections to or from the first network address that diverge at the intermediate node.". However Tanaka et al teaches a packet is tagged with an external VLAN ID, then the path selection manager 804 updates the packet by

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overwriting the external VLAN ID in the packet with the ID of the selected internal VLAN. In effect, this maps the external VLAN and the multicast address to the internal VLAN. As part of this mapping, the path selection manager 804 records the external VLAN -multicast address-internal VLAN association. One skilled in the art would have been motivated with this association which enables the path selection manager 804 to perform the reverse mapping when a packet leaves the network 300 [0086]. Therefore, it would have been obvious to one ordinary skilled to have combined the teachings

Re Claims, 2, 3, 112, 113, refer to claim 1, wherein the packet includes destination/source address

Re Claim 20, refer to claim 1, See figure 1.

Re Claims 57-60, refer to claim 1, wherein the packet includes classification information.

Re Claims 71 and 72, refer to Claim 70, wherein the packet includes the source and destination addresses.

Re Claims 12, 81, 122, figure 1 teaches the Intermediate node 200 but fails to explicitly teach that 200 is an Ethernet switch. One skilled in the art would have been motivated to modify the 200 with the Ethernet switch to support Ethernet connectivity.

Re claims 13-19, 21-23, 82-92, 123-129, 131-133, Marshall et al teaches the identifier is a VLAN tag but fails to explicitly teach the identifier can be IEEE 802.1Q, MPLS label, DSCP, IPv6, Pseudo wire frame. One skilled in the art would have been motivated to use known protocol to supporting forwarding of the packet.

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Re Claims 48, 49, 156, 157, Marshall et al fails to explicitly teach, "disabled on Ethernet switches of the network". However, one skilled in the art would have been motivated to disable the Ethernet switch when the forwarding address is not known.

Re Claims 65, 66, 170-171, Marshall et al teaches in figure 1, LAN 120 coupled to intermediate node 200. However, one skilled in the art would have motivated to interconnect multiple LANs through the 200. In so doing, figure 14 can be configured (forwarding data frames having the first network and first identifier) to support multiple LANs (at least two different ingress nodes) thereby supporting co-routing the connection at one or more nodes in the Internet 170.

Re Claims 28, 97, 138, the network can be partially mesh.

Allowable Subject Matter

 Claim 51 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter:

In combination with claims 50 and 51, prior art fails to teach first connection comprises associating the service instance identifier with the first connection.

Claims 52, 53 are allowed.

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Response to Arguments

Applicant's arguments with respect to claims 1-3, 12-23, 28, 48-50, 57-60, 65-66,
 70-72, 81-92, 97, 110-113, 122-129, 131-133, 138, 156-158, 162-165, 171, and 175
 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew Lee whose telephone number is 571-272-3130.
 The examiner can normally be reached on Monday to Friday from 8:30AM to 6:00PM. Art Unit: 2472

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Trost can be reached on 571-272-7872. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Andrew Lee/ Primary Examiner, Art Unit 2472